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(FILE 'HOME' ENTERED AT 14:34:56 ON 20 MAY 2008)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 14:35:33 ON 20 MAY 2008

L1 8 S (ISOLAT? OR PURIF?) (6A) LIVER (3A) BASEMENT (3A) MEMBRANE  
L2 4 DUP REM L1 (4 DUPLICATES REMOVED)  
L3 85962 S DNA (3A) CONTENT  
L4 0 S L2 AND L3  
L5 169 S LIVER (3A) BASEMENT (3A) MEMBRANE  
L6 0 S L3 AND L5  
L7 112005 S DNA (6A) (CONTENT OR WEIGHT)  
L8 0 S L5 AND L7  
L9 113 DUP REM L5 (56 DUPLICATES REMOVED)

=> d au ti so pi 10-39 19

L9 ANSWER 10 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN

IN McPherson, Timothy B.

TI Extracellular matrix material particles and methods of preparation

SO U.S. Pat. Appl. Publ., 8pp.

CODEN: USXXCO

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI US 20060292227 A1 20061228 US 2006-472947 20060622

L9 ANSWER 11 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN

IN Chen, Zhinan; King, Jinliang; Zhang, Sihe; Yang, Xiangmin; Wang, Li; Ye, Hui; Li, Biehu

TI cDNA and protein sequences of monoclonal antibody HAb18Gedomabl specific

SO to human CD147 and the use of the antibody for treatment of liver fibrosis  
Faming Zhuanli Shengqing Gongkai Shuomingshu, 17 pp.

CODEN: CNXXEV

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI CN 1782077 A 20060607 CN 2004-10078858 20040909

L9 ANSWER 12 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN

AU Brown, Bryan; Lindberg, Kristina; Reing, Janet; Stolz, Donna Beer; Badylak, Stephen F.

TI The Basement Membrane Component of Biologic Scaffolds Derived from Extracellular Matrix

SO Tissue Engineering (2006), 12(3), 519-526

CODEN: TIENFP; ISSN: 1076-3279

L9 ANSWER 13 OF 113 MEDLINE on STN DUPLICATE 1

AU Zeisberg Michael; Kramer Kyle; Sindhi Nazia; Sarkar Pradip; Upton Melissa; Kalluri Raghu

TI De-differentiation of primary human hepatocytes depends on the composition of specialized liver basement membrane.

SO Molecular and cellular biochemistry, (2006 Feb) Vol. 283, No. 1-2, pp. 181-9.

Journal code: 0364456. ISSN: 0300-8177.

L9 ANSWER 14 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN

AU Xu, Xin; Li, Yiming; Ji, Hong; Hou, Chongzhi; Cheng, Yingbo; Zhao, Xiaoge

TI Localization and expression level of integrin subunits alpha 3 and alpha M in human cirrhotic liver

SO Disi Junyi Daxue Xuebao (2005), 26(17), 1585-1587

CODEN: DJDXEG; ISSN: 1000-2790

L9 ANSWER 15 OF 113 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
 STN  
 AU Badylak, Stephen F. [Inventor, Reprint Author]  
 TI Biomaterial derived from vertebrate liver tissue.  
 SO Official Gazette of the United States Patent and Trademark Office Patents,  
 (Sep 21 2004) Vol. 1286, No. 3. <http://www.uspto.gov/web/menu/patdata.html>  
 . e-file.  
 ISSN: 0098-1133 (ISSN print).  
 FI US 6793939 20040921

L9 ANSWER 16 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN  
 IN Badylak, Stephen Francis  
 TI Vascularization enhanced graft constructs  
 SO PCT Int. Appl., 30 pp.

CODEN: PIXXD2  
 PATENT NO. KIND DATE APPLICATION NO. DATE

FI	WO 2003092604	A2	20031113	WO 2003-US13555	20030501
	WO 2003092604	A3	20040603		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2483913	A1	20031113	CA 2003-2483913	20030501
	AU 2003243184	A1	20031117	AU 2003-243184	20030501
	EP 1503789	A2	20050209	EP 2003-747631	20030501
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	CN 1665527	A	20050907	CN 2003-815572	20030501
	JP 2003053535	T	20051110	JP 2004-500789	20030501

L9 ANSWER 17 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN  
 IN Badylak, Stephen Francis; Morris, Kenneth Robert  
 TI Compositions for inhibiting hypersensitivity  
 SO PCT Int. Appl., 36 pp.

CODEN: PIXXD2  
 PATENT NO. KIND DATE APPLICATION NO. DATE

FI	WO 2003059284	A2	20030724	WO 2003-US650	20030109
	WO 2003059284	A3	20031231		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003210474	A1	20030730	AU 2003-210474	20030109

L9 ANSWER 18 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN  
 IN Badylak, Stephen Francis; Rodenberg, Eric James

TI Biomaterial derived from vertebrate liver tissue  
 SO PCT Int. Appl.  
 CODEN: PIXXD2  
 PATENT NO. KIND DATE APPLICATION NO. DATE

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PI WO 2003059061 A1 20030724 WO 2003-US604 20030109

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003202261 A1 20030730 AU 2003-202261 20030109  
 US 20050019419 A1 20050127 US 2004-500511 20040630

L9 ANSWER 19 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN  
 IN Plouhar, Pamela Lynn; Malaviya, Prasanna; Schwartz, Herbert Eugene  
 TI Cartilage repair and regeneration scaffold and method  
 SO PCT Int. Appl., 31 pp.

CODEN: PIXXD2  
 PATENT NO. KIND DATE APPLICATION NO. DATE

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PI WO 2003007879 A2 20030130 WO 2002-US22411 20020715

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 20030033021 A1 20030213 US 2002-195334 20020715  
 AU 2002316696 A1 20030303 AU 2002-316696 20020715  
 AU 2002316696 B2 20070830  
 JP 2004535250 T 20041125 JP 2003-513448 20020715  
 JP 2004535252 T 20041125 JP 2003-513488 20020715  
 AU 2002322567 B2 20070906 AU 2002-322567 20020715

L9 ANSWER 20 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN  
 IN Malaviya, Prasanna; Melican, Mora C.; Rezanian, Alireza; Chun, Iksoo  
 TI Hybrid biologic/synthetic porous extracellular matrix scaffolds  
 SO PCT Int. Appl., 27 pp.

CODEN: PIXXD2  
 PATENT NO. KIND DATE APPLICATION NO. DATE

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PI WO 2003007790 A2 20030130 WO 2002-US22409 20020715  
 WO 2003007790 A3 20030619

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,

	FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG	
US	20030021827	A1 20030130 US 2002-195341 20020715
AU	2002316694	A1 20030303 AU 2002-316694 20020715
AU	2002316694	B2 20070906
EP	1416874	A2 20040512 EP 2002-747019 20020715
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK	
JP	2004535250	T 20041125 JP 2003-513448 20020715
JP	2005515802	T 20050602 JP 2003-513404 20020715
AU	2002322567	B2 20070906 AU 2002-322567 20020715

L9 ANSWER 21 OF 113 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
STN

AU Badylak, Stephen F. [Inventor]

TI Biomaterial derived from vertebrate liver tissue.

SO Official Gazette of the United States Patent and Trademark Office Patents,  
(Apr. 30, 2002) Vol. 1257, No. 5. <http://www.uspto.gov/web/menu/patdata.htm>  
ml. e-file.

CODEN: OGUPE7. ISSN: 0098-1133.

PI US 6379710 20020430

L9 ANSWER 22 OF 113 MEDLINE on STN DUPLICATE 2

AU Bedossa Pierre; Ferlicot Sophie; Paradis Valerie; Dargere Delphine;  
Bonvoust Frank; Vidaud Michel

TI Dystroglycan expression in hepatic stellate cells: role in liver fibrosis.

SO Laboratory investigation; a journal of technical methods and pathology,  
(2002 Aug) Vol. 82, No. 8, pp. 1053-61.  
Journal code: 0376617. ISSN: 0023-6837.

L9 ANSWER 23 OF 113 MEDLINE on STN DUPLICATE 3

AU Xiao Wenjun; Wang Yiping; Liu Xiaojing; Huang Minghui; Gan Tao

TI Expression of integrin alpha 6 in hepatic sinusoidal capillarization.

SO Zhonghua gan zang bing za zhi = Zhonghua ganzangbing zazhi = Chinese  
journal of hepatology, (2002 Apr) Vol. 10, No. 2, pp. 90-2.  
Journal code: 9710009. ISSN: 1007-3418.

L9 ANSWER 24 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN

AU Nagaki, Masahito; Miki, Keisaburo; Kim, Yang-Il; Ishiyama, Haruo;  
Hirahara, Ichiro; Takahashi, Hiroaki; Sugiyama, Akihiko; Muto, Yasutoshi;  
Moriwaki, Hisataka

TI Development and characterization of a hybrid bioartificial liver using  
primary hepatocytes entrapped in a basement membrane matrix

SO Digestive Diseases and Sciences (2001), 46(5), 1046-1056  
CODEN: DDSCDJ; ISSN: 0163-2116

L9 ANSWER 25 OF 113 MEDLINE on STN

AU Xiao W; Wang Y; Liu X

TI The coordinated expression of laminin and its integrin receptor in hepatic  
sinusoidal capillarization.

SO Zhonghua nei ke za zhi [Chinese journal of internal medicine], (2001 Sep)  
Vol. 40, No. 9, pp. 618-20.  
Journal code: 16210490R. ISSN: 0578-1426.

L9 ANSWER 26 OF 113 MEDLINE on STN DUPLICATE 4

AU O'Toole D; Kelly E J; McAllister M M; Layton A W; Norrdin R W; Russell W  
C; Saeb-Parsy K; Walker A P

TI Hepatic failure and hemochromatosis of Salers and Salers-cross cattle.

SO Veterinary pathology, (2001 Jul) Vol. 38, No. 4, pp. 372-89.  
Journal code: 0312020. ISSN: 0300-9858.

L9 ANSWER 27 OF 113 MEDLINE on STN DUPLICATE 5  
 AU Neubauer K; Saile B; Ramadori G  
 TI Liver fibrosis and altered matrix synthesis.  
 SO Canadian journal of gastroenterology = Journal canadien de gastroenterologie, (2001 Mar) Vol. 15, No. 3, pp. 187-93. Ref: 75  
 Journal code: 8807867. ISSN: 0835-7900.

L9 ANSWER 28 OF 113 MEDLINE on STN DUPLICATE 6  
 AU Walsh K M; Fletcher A; MacSween R N; Morris A J  
 TI Basement membrane peptides as markers of liver disease in chronic hepatitis C.  
 SO Journal of hepatology, (2000 Feb) Vol. 32, No. 2, pp. 325-30.  
 Journal code: 8503886. ISSN: 0168-8278.

L9 ANSWER 29 OF 113 MEDLINE on STN DUPLICATE 7  
 AU Maru Y; Hirosewa H; Shibuya M  
 TI An oncogenic form of the Flt-1 kinase has a tubulogenic potential in a sinusoidal endothelial cell line.  
 SO European journal of cell biology, (2000 Feb) Vol. 79, No. 2, pp. 130-43.  
 Journal code: 7906240. ISSN: 0171-9335.

L9 ANSWER 30 OF 113 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 AU Yasoshima M; Tsuneyama K; Harada K; Sasaki M; Gershwin M E; Nakanuma Y (Reprint)  
 TI Immunohistochemical analysis of cell-matrix adhesion molecules and their ligands in the portal tracts of primary biliary cirrhosis  
 SO JOURNAL OF PATHOLOGY, (JAN 2000) Vol. 190, No. 1, pp. 93-99.  
 ISSN: 0022-3417.

L9 ANSWER 31 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN  
 AU Zeng, Zhao-Shi; Cohen, Alfred M.; Guillem, Jose G.  
 TI Loss of basement membrane type IV collagen is associated with increased expression of metalloproteinases 2 and 9 (MMP-2 and MMP-9) during human colorectal tumorigenesis  
 SO Carcinogenesis (1999), 20(5), 749-755  
 CODEN: CRNGDP; ISSN: 0143-3334

L9 ANSWER 32 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN  
 AU Neubauer, Katrin; Kruger, Michaela; Quondamatteo, Fabio; Knittel, Thomas; Saile, Bernhard; Ramadori, Giuliano  
 TI Transforming growth factor- $\beta$ 1 stimulates the synthesis of basement membrane proteins laminin, collagen type IV and entactin in rat liver sinusoidal endothelial cells  
 SO Journal of Hepatology (1999), 31(4), 692-702  
 CODEN: JOHEEC; ISSN: 0168-8278

L9 ANSWER 33 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN  
 IN Badylak, Stephen F.  
 TI Biomaterial derived from vertebrate liver tissue  
 SO PCT Int. Appl., 23 pp.  
 CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9825637	A1	19980618	WO 1997-US22727	19971210
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,			

	FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG		
CA	2274033	A1 19980618	CA 1997-2274033 19971210
AU	9856958	A 19980703	AU 1998-56958 19971210
AU	732726	B2 20010426	
EP	942739	A1 19990922	EP 1997-953153 19971210
EP	942739	B1 20060412	
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI		
JP	2001505917	T 20010508	JP 1998-526949 19971210
ES	2263185	T3 20061201	ES 1997-953153 19971210
US	20020160052	A1 20021031	US 2002-134416 20020429
US	6793939	B2 20040921	
US	20040157323	A1 20040812	US 2004-775386 20040210

L9 ANSWER 34 OF 113 MEDLINE on STN DUPLICATE 8

AU Uemura K; Takao S; Aikou T

TI In vitro determination of basement membrane invasion predicts liver metastases in human gastrointestinal carcinoma.

SO Cancer research, (1998 Aug 15) Vol. 58, No. 16, pp. 3727-31.  
Journal code: 2984705R. ISSN: 0008-5472.

L9 ANSWER 35 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN

AU Bresalier, Robert S.; Byrd, James C.; Brodt, Pnina; Ogata, Shunichiro; Itzkowitz, Steven H.; Yunker, Christopher K.

TI Liver metastasis and adhesion to the sinusoidal endothelium by human colon cancer cells is related to mucin carbohydrate chain length

SO International Journal of Cancer (1998), 76(4), 556-562  
CODEN: IJCNAW; ISSN: 0020-7136

L9 ANSWER 36 OF 113 MEDLINE on STN DUPLICATE 9

AU Musso O; Rehn M; Saarela J; Theret N; Lietard J; Hintikka; Lotrian D; Campion J P; Pihlajaniemi T; Clement B

TI Collagen XVIII is localized in sinusoids and basement membrane zones and expressed by hepatocytes and activated stellate cells in fibrotic human liver.

SO Hepatology (Baltimore, Md.), (1998 Jul) Vol. 28, No. 1, pp. 98-107.  
Journal code: 8302946. ISSN: 0270-9139.

L9 ANSWER 37 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN

AU Yoshida, Tsuyoshi; Matsubara, Osamu; Adachi, Eihiro; Kino, Jun; Asamatsu, Chinatsu; Takeda, Yasushi; Hayashi, Toshihiko

TI Increased deposition and altered distribution of basement membrane-related collagens in human fibrotic or cirrhotic liver

SO Connective Tissue (1997), 29(3), 189-198  
CODEN: COTIE7; ISSN: 0916-572X

L9 ANSWER 38 OF 113 MEDLINE on STN

AU Okuno K; Koh K; Kubo R; Shindo K; Yasutomi M

TI Diagnosis and therapy for metastatic liver cancer.

SO Gan to kagaku ryoho. Cancer & chemotherapy, (1996 Sep) Vol. 23, No. 10, pp. 1255-61. Ref: 17  
Journal code: 7810034. ISSN: 0385-0684.

L9 ANSWER 39 OF 113 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 10

AU Aoki, Michiko; Noguchi, Satoshi; Katoh, Hiroyasu; Seki, Takayuki; Kojima, Kohichi; Nagata, Tomoko; Saitoh, Yoshiaki; Azegami, Jiro; Inada, Hiroko; et al.

TI A 52-week repeated dose oral toxicity study of broprimine in beagle dogs with 9-week recovery test

SO Oyo Yakuri (1996), 52(5), 289-336

=> d ab 2-4 12

L2 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

AB The NCI globular domain of the basement membrane was isolated and purified from human liver, kidney, or placenta. The globular domain has a mol. weight of 170,000 and is comprised of 6 subunits each with a mol. weight of 28,000. Thus, 1 kg of placenta, kidney, or lung was homogenized and stirred at 4° for 24 h. The residue was extracted with guanidinium hydrochloride at 4° in the presence of p-hydroxymercuribenzoate and phenylmethane sulfonylfluoride, as proteinase inhibitors. The remaining residues were dialyzed against water and lyophilized. Approx. 20 g of the lyophilized residue was dissolved in 800 mL NaCl 0.2, CaCl<sub>2</sub> 0.002, Tris-HCl 0.05 M (pH 7.4), homogenized and subjected to digestion with 8 mg of collagen for 2 h at room temperature. The collagen digestion was repeated and the solution precipitated by the addition of EDTA 0.005, NaCl 3 M. The precipitate was dissolved in urea 2, Tris-HCl 0.05 M (pH 8.6), and applied to a DEAE cellulose column. The material that did not bind to the column was dialyzed against ammonium bicarbonate (pH 7-9) and digested with collagen for 24 at 37°. The final purification was performed on an Agarose A column in CaCl<sub>2</sub> 1 and Tris-HCl 0.05 M (pH 7.4) and the amino acid composition of the NCI globular domain of the basement membrane determined. Antibodies to the NCI globular domain were raised in rabbits and used in radioimmunoassays and enzyme immunoassays to determine the levels of basement membranes in body fluids.

L2 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 2

AB Collagens were extracted from human normal and cirrhotic livers. Alc., hemochromatotic, Wilson's disease, and posthepatic cirrhosis were studied. The yield of extracted collagens was 60-95%. Normal liver contained 5.5 mg collagen/g wet tissue. In cirrhotic liver, collagen levels increased 4-7-fold. In all livers studied, approx. 2 mg collagen/g wet tissue remained insol. Each liver contained type I and type III collagens and a group of collagens with amino acid composition similar to that found in basement membranes. Three of these basement membrane collagens, A, B, and E, representing 50% of the liver basement membrane collagen, were purified and partially characterized. The other 50%, similar in composition to basement membrane collagen obtained from glomerulus, was heterogeneous and was not characterized. Collagens A and B were identical to the A and B chains isolated from placenta and skin. Collagen E was similar to the collagen previously isolated from human aorta. In cirrhotic, but not normal liver, an addnl. collagen, which was identified as a trimer of  $\alpha$ 1 type I collagen, was found. Normal livers contained approx. equal amts. of type I, type III, and basement membrane collagens. The ratio of type I/type III collagen was <1. In cirrhotic livers all collagen types were increased; in livers containing <20 mg collagen/g fresh tissue, the ratio of type I/type III collagen remained similar to that found in normal liver. However, in cirrhotic livers with >20 mg collagen/g the tissue, type I collagen was the predominant type, and the ratio of type I/type III collagen increased.

L2 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

AB Basement membrane collagens were isolated from fractions of various human and embryonic chick tissues by a method that uses heat gelation of pepsin-solubilized collagens. Reduction under native conditions, followed by reepsinization, was necessary to obtain reproducible electrophoretic,

chromatog., and electron microscopic properties of the collagen fractions isolated by the given method. The amino acid comps. of materials obtained from several tissues are tabulated and discussed. Segment-long-spacing crystallites of chick embryo collagen revealed a distinctive band pattern by electron microscopy.